pc-dmis	PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9NR005 v5x IR09		April 25, 2012	11:26
	REV NUMBER :	SER NUMBER :	STATS COUNT :	1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation
'Inspected by ' : Robert Riley
'Cavity Number' : TB9NR016
' ' : 1204250837

BEAM PIPE FLANGE NEAR

⌗	MM	LOC1 - PL-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	0.000	0.000	0.000	0.200	0.200	0.000	
FL	0.000	0.015	0.015	0.200	0.000	0.000	

AX	I	J	K
V	-0.004	-1.000	0.003

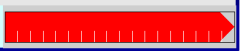
//	MM	PARL1 - PL-NEAR-END-FLANGE TO YMINUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.391	0.391	0.200	0	0.191	

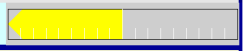
∠	DEG	ANGL1 - PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.185	0.185	0.100	0.100	0.085	

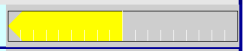
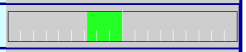
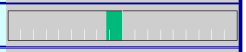
⌗	MM	LOC2 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.184	-0.184	0.200	0.200	0.000	
Z	0.000	0.246	0.246	0.200	0.200	0.046	
D	140.000	139.954	-0.046	0.300	0.300	0.000	
RN	0.000	0.046	0.046	0.200	0.000	0.000	

⌗	MM	LOC3 - PL-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1247.400	1251.717	4.317	3.000	3.000	1.317	
FL	0.000	0.015	0.015	0.200	0.000	0.000	

AX	I	J	K
V	-0.002	1.000	0.002

//	MM	PARL2 - PL-FAR-END TO YPLUS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.519	0.519	0.200	0	0.319	

∠	DEG	ANGL2 - PL-FAR-END TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.753	-0.247	0.100	0.100	-0.147	

⌗	MM	LOC4 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.348	-0.348	0.200	0.200	0.148	
Z	0.000	-0.061	-0.061	0.200	0.200	0.000	
D	140.000	139.960	-0.040	0.300	0.300	0.000	
RN	0.000	0.073	0.073	0.200	0.000	0.000	

DATUM-1-PLANE

⌗	MM	LOC-DATUM-1-PLANE - PLC-DAT-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	92.840	91.655	-1.185	0.200	0.200	0.985
FL	0.000	0.051	0.051	0.200	0.000	0.000

AX	I	J	K
V	-0.002	-1.000	0.001

//	MM	PARL5 - PLC-DAT-1 TO YMINUS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.182	0.182	0.200	0	0.000

∡	DEG	ANGL7 - PLC-DAT-1 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.083	0.083	0.100	0.100	0.000

DATUM-2-PLANE

⌗	MM	LOC-DATUM-2-PLANE - PLC-DAT-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1154.560	1159.480	4.920	0.200	0.200	4.720
FL	0.000	0.048	0.048	0.200	0.000	0.000

AX	I	J	K
V	-0.005	1.000	0.002

//	MM	PARL6 - PLC-DAT-2 TO YPLUS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.586	0.586	0.200	0	0.386

∡	DEG	ANGL8 - PLC-DAT-2 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.620	-0.380	0.100	0.100	-0.280

⟷	MM	DIST3 - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1067.825	6.765	0.200	0.200	6.565

⟷	MM	DIST4 - PLC-DAT-2 TO PL-FAR-END (YAXIS)

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	93.500	92.237	-1.263	0.200	0.200	-1.063

PICKUP ANTENNA FLANGE NW8

⌗	MM	LOC5 - PL NW8 ANTENNA FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-53.477	0.323	0.200	0.200	0.123
FL	0.000	0.003	0.003	0.200	0.000	0.000

AX	I	J	K
V	-0.999	0.005	0.034

//	MM	PARL3 - PL NW8 ANTENNA FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.955	0.955	0.200	0	0.755

∠	DEG	ANGL3 - PL NW8 ANTENNA FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	88.164	-1.836	0.100	0.100	-1.736

⌗	MM	LOC6 - CR_NW8_ANTENNA_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.257	-0.343	0.200	0.200	0.143
Z	0.000	2.280	2.280	0.200	0.200	2.080
D	33.800	33.702	-0.098	0.150	0.000	0.098
RN	0.000	0.088	0.088	0.150	0.000	0.000

MAIN COUPLER FLANGE NW40

⌗	MM	LOC7 - PL NW 40 FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	88.009	0.009	0.200	0.200	0.000
FL	0.000	0.011	0.011	0.200	0.000	0.000

AX	I	J	K
V	1.000	0.000	0.000

//	MM	PARL4 - PL NW 40 FLANGE TO XMINUS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0	0.188	0.188	0.200	0	0.000

∠	DEG	ANGL4 - PL NW 40 FLANGE TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.846	-0.154	0.100	0.100	-0.054

⌗	MM	LOC8 - CR_NW_40_FLANGE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1191.755	4.955	0.200	0.200	4.755
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	75.978	-0.022	0.200	0.000	0.022
RN	0.000	0.013	0.013	0.200	0.000	0.000

⟷	MM	DIST1 - CR_NW_40_FLANGE TO PL-FAR-END (YAXIS)				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	59.962	-0.638	0.200	0.200	-0.438

⌖	MM	TP NW40 MC BH1 - CR NW 40 FLANGE BH1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.657	-0.093					
PA	112.500	113.461	0.961					
DF	6.700	6.788	0.088	0.200	0.200	0.000	0.000	
RN	0.000	0.014	0.014	0.200	0.000	0.000		
TP	RFS		1.079	0.300		0.779	0.000	

⌖	MM	TP NW40 MC BH2 - CR NW 40 FLANGE BH2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.641	-0.109					
PA	67.500	68.394	0.894					
DF	6.700	6.791	0.091	0.200	0.200	0.000	0.000	
RN	0.000	0.022	0.022	0.200	0.000	0.000		
TP	RFS		1.013	0.300		0.713	0.000	

⌖	MM	TP NW40 MC BH3 - CR NW 40 FLANGE BH3						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.657	-0.093					
PA	22.500	23.275	0.775					
DF	6.700	6.825	0.125	0.200	0.200	0.000	0.000	
RN	0.000	0.024	0.024	0.200	0.000	0.000		
TP	RFS		0.877	0.300		0.577	0.000	

⌖	MM	TP NW40 MC BH4 - CR NW 40 FLANGE BH4						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.658	-0.092					
PA	-22.500	-21.839	0.661					
DF	6.700	6.778	0.078	0.200	0.200	0.000	0.000	
RN	0.000	0.022	0.022	0.200	0.000	0.000		
TP	RFS		0.754	0.300		0.454	0.000	

⌖	MM	TP NW40 MC BH5 - CR NW 40 FLANGE BH5						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
PR	31.750	31.706	-0.044					
PA	-67.500	-66.857	0.643					
DF	6.700	6.781	0.081	0.200	0.200	0.000	0.000	
RN	0.000	0.027	0.027	0.200	0.000	0.000		
TP	RFS		0.717	0.300		0.417	0.000	

	MM	TP NW40 MC BH6 - CR NW 40 FLANGE BH6					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.804	0.054				
PA	-112.500	-111.762	0.738				
DF	6.700	6.791	0.091	0.200	0.200	0.000	0.000
RN	0.000	0.014	0.014	0.200	0.000	0.000	
TP	RFS		0.826	0.300		0.526	0.000

	MM	TP NW40 MC BH7 - CR NW 40 FLANGE BH7					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.828	0.078				
PA	-157.500	-156.705	0.796				
DF	6.700	6.780	0.080	0.200	0.200	0.000	0.000
RN	0.000	0.016	0.016	0.200	0.000	0.000	
TP	RFS		0.896	0.300		0.596	0.000

	MM	TP NW40 MC BH8 - CR NW 40 FLANGE BH8					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
PR	31.750	31.784	0.034				
PA	157.500	158.515	1.015				
DF	6.700	7.002	0.302	0.200	0.200	0.102	0.000
RN	0.000	0.056	0.056	0.200	0.000	0.000	
TP	RFS		1.127	0.300		0.827	0.000

HOM-2 FLANGE NW12

	MM	FLAT4 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.014	0.014	0.200	0.000	0.000	

	MM	VECTOR1 - PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
AX		I		J		K	
V		-0.556		0.241		0.795	

	DEG	ANGL6 - PL-NW12-FLANGE-HOM2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	54.882	19.882	0.500	0.500	19.382	

	MM	LOC9 - CR-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-71.573	-71.573	100.000	100.000	0.000	
Y	0.000	1194.242	1194.242	2000.000	2000.000	0.000	
Z	0.000	-9.998	-9.998	100.000	100.000	0.000	
D	33.800	33.530	-0.270	0.150	0.000	0.270	
RN	0.000	0.095	0.095	0.150	0.000	0.000	

	MM	DIST FORMTEIL2 POINT - PT-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.346	-0.074	0.100	0.100	0.000

	MM	DIST FORMTEIL2 TAIL - PL-FORMTEIL2 TO PL-NW12-FLANGE-HOM2				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.346	-0.074	0.100	0.100	0.000

	DEG	ANGL5 - PL-NW12-FLANGE-HOM2 TO LINC ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	104.254	89.254	0.500	0.500	88.754

HOM 1 LOCATION

	MM	LOC-HOM1 - CY-HOM-1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	67.188	67.188	100.000	100.000	0.000
Y	60.600	59.639	-0.961	0.200	0.200	0.761
Z	0.000	-42.059	-42.059	100.000	100.000	0.000
D	44.000	43.923	-0.077	0.000	0.100	0.000
RN	0.000	0.082	0.082	0.100	0.000	0.000

AX	I	J	K
V	-0.844	0.014	0.536

	DEG	ANGL9 - CY-HOM-1 TO XAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	32.296	2.296	0.500	0.500	1.796

	DEG	ANGL10 - CY-HOM-1 TO YAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	-90.000	-89.256	0.744	0.500	0.500	0.244

	DEG	ANGL11 - CY-HOM-1 TO ZAXIS				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	57.704	-2.296	0.500	0.500	-1.796

INTERSECTION OF HOM1 & YZ PLANE

	MM	LOC-HOM1 X PLANE - PTC-HOM1 X YZ PLANE				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	60.600	60.671	0.071	0.200	0.200	0.000
Z	0.000	0.410	0.410	0.200	0.200	0.210

	MM	LOC_HOM1_FLANGE_A - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.001	0.001	0.200	0.000	0.000

	MM	LOC_HOM1_FLANGE_B - PL_NW12_FLANGE_HOM1				
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL

AX	I	J	K
V	-0.523	-0.242	-0.817

⦟	DEG	ANGL17 - PL_NW12_FLANGE_HOM1 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	106.536	91.536	0.500	0.500	91.036	

⌗	MM	LOC_HOM1_FLANGE_D - CR_NW12_FLANGE_HOM1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	40.497	37.517	-2.980	100.000	100.000	0.000	
Y	92.086	57.038	-35.048	100.000	100.000	0.000	
Z	-56.755	-59.929	-3.173	100.000	100.000	0.000	
D	33.800	33.557	-0.243	0.150	0.150	0.093	
RN	0.000	0.052	0.052	0.150	0.000	0.000	

HOM 2 LOCATION

⌗	MM	LOC-HOM2 - CY-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-64.285	-64.285	100.000	100.000	0.000	
Y	1186.800	1191.047	4.247	3.000	3.000	1.247	
Z	0.000	-45.390	-45.390	100.000	100.000	0.000	
D	44.000	43.975	-0.025	0.000	0.100	0.000	
RN	0.000	0.071	0.071	0.100	0.000	0.000	

AX	I	J	K
V	-0.817	-0.007	-0.577

⟷	MM	DIST2 - CY-HOM-2 TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.670	0.070	0.200	0.200	0.000	

⦟	DEG	ANGL12 - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.357	0.357	0.500	0.500	0.000	

⦟	DEG	ANGL13 - CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	-90.000	-90.469	-0.469	0.500	0.500	0.000	

⦟	DEG	ANGL14 - CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	54.643	-0.357	0.500	0.500	0.000	

INTERSECTION OF HOM2 & YZ PLANE

⌗	MM	LOC-HOM2 X PLANE - PTC-HOM2 X YZ PLANE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	1186.800	1191.692	4.892	3.000	3.000	1.892	
Z	0.000	0.223	0.223	0.200	0.200	0.023	

LOCATIONS OF CONSTRUCTED CIRCLES
ON 18 HALF CELLS & 2 DATUM SURFACES & 2 VACUUM SURFACES

⌗	MM	LOC-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	93.475	93.475	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.859	-0.140	0.050	0.050	0.090	
RN	0.000	0.034	0.034	0.050	0.000	0.000	

⌗	MM	LOC-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.043	-0.044	0.200	0.200	0.000	
Y	158.307	121.411	-36.897	2000.000	2000.000	0.000	
Z	0.000	-0.085	-0.086	0.200	0.200	0.000	
D	211.000	210.319	-0.681	0.200	0.200	0.481	
RN	0.000	0.082	0.082	0.200	0.000	0.000	

⌗	MM	LOC-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.054	0.053	0.200	0.200	0.000	
Y	0.000	155.581	155.581	2000.000	2000.000	0.000	
Z	0.000	-0.248	-0.248	0.200	0.200	0.048	
D	210.300	210.928	0.628	0.200	0.200	0.428	
RN	0.000	0.287	0.287	0.200	0.000	0.087	

⌗	MM	LOC-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.036	0.036	0.200	0.200	0.000	
Y	0.000	166.633	166.633	2000.000	2000.000	0.000	
Z	0.000	-0.340	-0.340	0.200	0.200	0.140	
D	210.300	211.197	0.897	0.200	0.200	0.697	
RN	0.000	0.294	0.294	0.200	0.000	0.094	

⌗	MM	LOC-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.326	0.326	0.200	0.200	0.126	
Y	0.000	271.882	271.882	2000.000	2000.000	0.000	
Z	0.000	-0.607	-0.607	0.200	0.200	0.407	
D	210.300	211.209	0.909	0.200	0.200	0.709	
RN	0.000	0.196	0.196	0.200	0.000	0.000	

⌗	MM	LOC-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.333	0.333	0.200	0.200	0.133	
Y	0.000	282.769	282.769	2000.000	2000.000	0.000	
Z	0.000	-0.734	-0.734	0.200	0.200	0.534	
D	210.300	211.207	0.907	0.200	0.200	0.707	
RN	0.000	0.342	0.342	0.200	0.000	0.142	

⌗	MM	LOC-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.677	0.677	0.200	0.200	0.477	
Y	0.000	388.400	388.400	2000.000	2000.000	0.000	
Z	0.000	-0.591	-0.591	0.200	0.200	0.391	
D	210.300	211.249	0.949	0.200	0.200	0.749	
RN	0.000	0.283	0.283	0.200	0.000	0.083	

⌗	MM	LOC-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.860	0.860	0.200	0.200	0.660	
Y	0.000	399.578	399.578	2000.000	2000.000	0.000	
Z	0.000	-0.690	-0.690	0.200	0.200	0.490	
D	210.300	211.287	0.986	0.200	0.200	0.786	
RN	0.000	0.184	0.184	0.200	0.000	0.000	

⌗	MM	LOC-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.981	0.981	0.200	0.200	0.781	
Y	0.000	504.226	504.226	2000.000	2000.000	0.000	
Z	0.000	-0.760	-0.761	0.200	0.200	0.561	
D	210.300	211.257	0.956	0.200	0.200	0.756	
RN	0.000	0.363	0.363	0.200	0.000	0.163	

⌗	MM	LOC-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.856	0.856	0.200	0.200	0.656	
Y	0.000	515.468	515.468	2000.000	2000.000	0.000	
Z	0.000	-0.819	-0.819	0.200	0.200	0.619	
D	210.300	211.213	0.913	0.200	0.200	0.713	
RN	0.000	0.256	0.256	0.200	0.000	0.056	

⌗	MM	LOC-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.937	0.937	0.200	0.200	0.737	
Y	0.000	620.686	620.686	2000.000	2000.000	0.000	
Z	0.000	-0.680	-0.680	0.200	0.200	0.480	
D	210.300	211.240	0.940	0.200	0.200	0.740	
RN	0.000	0.315	0.315	0.200	0.000	0.115	

⌗	MM	LOC-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.997	0.997	0.200	0.200	0.797	
Y	0.000	631.577	631.577	2000.000	2000.000	0.000	
Z	0.000	-0.831	-0.831	0.200	0.200	0.631	
D	210.300	211.231	0.931	0.200	0.200	0.731	
RN	0.000	0.248	0.248	0.200	0.000	0.048	

⌗	MM	LOC-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.929	0.929	0.200	0.200	0.729	
Y	0.000	736.620	736.620	2000.000	2000.000	0.000	
Z	0.000	-0.660	-0.660	0.200	0.200	0.460	
D	210.300	211.226	0.926	0.200	0.200	0.726	
RN	0.000	0.279	0.279	0.200	0.000	0.079	

⌗	MM	LOC-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.901	0.901	0.200	0.200	0.701	
Y	0.000	747.968	747.968	2000.000	2000.000	0.000	
Z	0.000	-0.745	-0.746	0.200	0.200	0.546	
D	210.300	211.230	0.930	0.200	0.200	0.730	
RN	0.000	0.238	0.238	0.200	0.000	0.038	

⌗	MM	LOC-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.783	0.783	0.200	0.200	0.583	
Y	0.000	853.760	853.760	2000.000	2000.000	0.000	
Z	0.000	-0.571	-0.571	0.200	0.200	0.371	
D	210.300	211.223	0.923	0.200	0.200	0.723	
RN	0.000	0.238	0.238	0.200	0.000	0.038	

⌗	MM	LOC-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.728	0.728	0.200	0.200	0.528	
Y	0.000	864.681	864.681	2000.000	2000.000	0.000	
Z	0.000	-0.550	-0.550	0.200	0.200	0.350	
D	210.300	211.169	0.869	0.200	0.200	0.669	
RN	0.000	0.149	0.149	0.200	0.000	0.000	

⌗	MM	LOC-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.622	0.622	0.200	0.200	0.422	
Y	0.000	969.193	969.193	2000.000	2000.000	0.000	
Z	0.000	-0.379	-0.379	0.200	0.200	0.179	
D	210.300	211.183	0.883	0.200	0.200	0.683	
RN	0.000	0.275	0.275	0.200	0.000	0.075	

⌗	MM	LOC-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.608	0.608	0.200	0.200	0.408	
Y	0.000	981.007	981.007	2000.000	2000.000	0.000	
Z	0.000	-0.237	-0.237	0.200	0.200	0.037	
D	210.300	211.203	0.903	0.200	0.200	0.703	
RN	0.000	0.219	0.219	0.200	0.000	0.019	
⌗	MM	LOC-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.279	0.279	0.200	0.200	0.079	
Y	0.000	1085.705	1085.705	2000.000	2000.000	0.000	
Z	0.000	-0.103	-0.104	0.200	0.200	0.000	
D	210.300	211.333	1.033	0.200	0.200	0.833	
RN	0.000	0.330	0.330	0.200	0.000	0.130	
⌗	MM	LOC-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.180	0.180	0.200	0.200	0.000	
Y	0.000	1097.174	1097.174	2000.000	2000.000	0.000	
Z	0.000	0.054	0.054	0.200	0.200	0.000	
D	210.300	210.649	0.349	0.200	0.200	0.149	
RN	0.000	0.550	0.550	0.200	0.000	0.350	
⌗	MM	LOC-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.157	0.157	0.200	0.200	0.000	
Y	1156.557	1125.364	-31.193	2000.000	2000.000	0.000	
Z	0.000	0.018	0.018	0.200	0.200	0.000	
D	235.000	234.580	-0.420	0.200	0.200	0.220	
RN	0.000	0.226	0.226	0.200	0.000	0.026	
⌗	MM	LOC-CC22 - CRC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	
Y	0.000	1157.371	1157.371	2000.000	2000.000	0.000	
Z	0.000	0.000	0.000	0.200	0.200	0.000	
D	111.000	110.946	-0.054	0.050	0.050	0.004	
RN	0.000	0.033	0.033	0.050	0.000	0.000	

⌖	MM	LOC-TP-CC1 - CRC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000

⌖	MM	LOC-TP-CC2 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	-0.043	-0.044				
Z	0.000	-0.085	-0.086				
TP	RFS		0.192	0.400		0.000	0.000

⌖	MM	LOC-TP-CC3 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.054	0.053				
Z	0.000	-0.248	-0.248				
TP	RFS		0.508	0.400		0.108	0.000

⌖	MM	LOC-TP-CC4 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.036	0.036				
Z	0.000	-0.340	-0.340				
TP	RFS		0.683	0.400		0.283	0.000

⌖	MM	LOC-TP-CC5 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.326	0.326				
Z	0.000	-0.607	-0.607				
TP	RFS		1.378	0.400		0.978	0.000

⌖	MM	LOC-TP-CC6 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.333	0.333				
Z	0.000	-0.734	-0.734				
TP	RFS		1.612	0.400		1.212	0.000

⌖	MM	LOC-TP-CC7 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.677	0.677				
Z	0.000	-0.591	-0.591				
TP	RFS		1.797	0.400		1.397	0.000

⌖	MM	LOC-TP-CC8 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.860	0.860				
Z	0.000	-0.690	-0.690				
TP	RFS		2.204	0.400		1.804	0.000

⌖	MM	LOC-TP-CC9 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.981	0.981				
Z	0.000	-0.760	-0.761				
TP	RFS		2.483	0.400		2.083	0.000

⌖	MM	LOC-TP-CC10 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.856	0.856				
Z	0.000	-0.819	-0.819				
TP	RFS		2.370	0.400		1.970	0.000

⌖	MM	LOC-TP-CC11 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.937	0.937				
Z	0.000	-0.680	-0.680				
TP	RFS		2.316	0.400		1.916	0.000

⌖	MM	LOC-TP-CC12 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.997	0.997				
Z	0.000	-0.831	-0.831				
TP	RFS		2.596	0.400		2.196	0.000

⌖	MM	LOC-TP-CC13 - CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.929	0.929				
Z	0.000	-0.660	-0.660				
TP	RFS		2.279	0.400		1.879	0.000

⌖	MM	LOC-TP-CC14 - CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.901	0.901				
Z	0.000	-0.745	-0.746				
TP	RFS		2.338	0.400		1.938	0.000

⌖	MM	LOC-TP-CC15 - CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.783	0.783				
Z	0.000	-0.571	-0.571				
TP	RFS		1.938	0.400		1.538	0.000

⌖	MM	LOC-TP-CC16 - CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.728	0.728				
Z	0.000	-0.550	-0.550				
TP	RFS		1.825	0.400		1.425	0.000

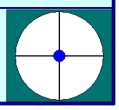
⌖	MM	LOC-TP-CC17 - CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.622	0.622				
Z	0.000	-0.379	-0.379				
TP	RFS		1.457	0.400		1.057	0.000

⌖	MM	LOC-TP-CC18 - CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.608	0.608				
Z	0.000	-0.237	-0.237				
TP	RFS		1.306	0.400		0.906	0.000

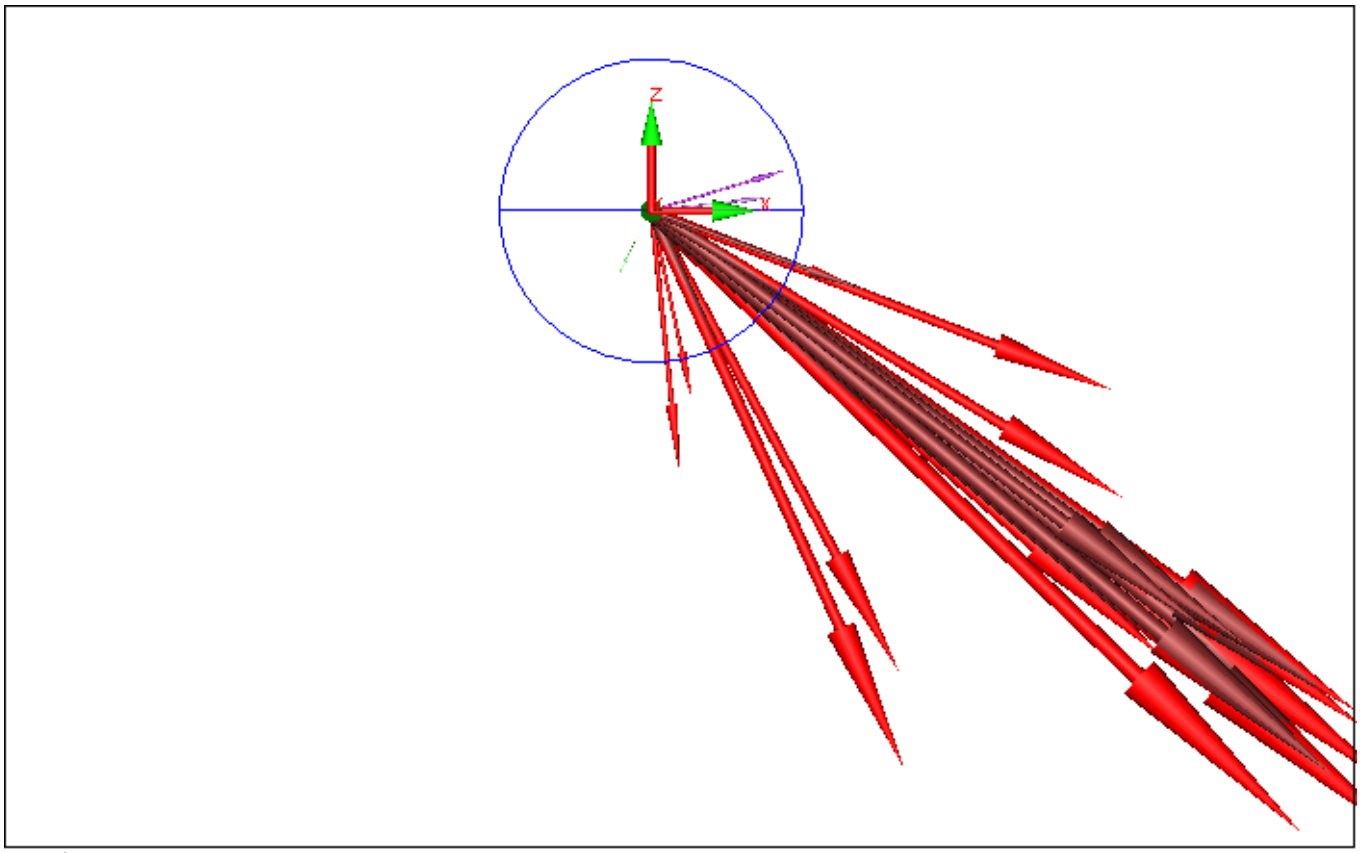
⌖	MM	LOC-TP-CC19 - CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.279	0.279				
Z	0.000	-0.103	-0.104				
TP	RFS		0.594	0.400		0.194	0.000

⌖	MM	LOC-TP-CC20 - CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.180	0.180				
Z	0.000	0.054	0.054				
TP	RFS		0.376	0.400		0.000	0.000

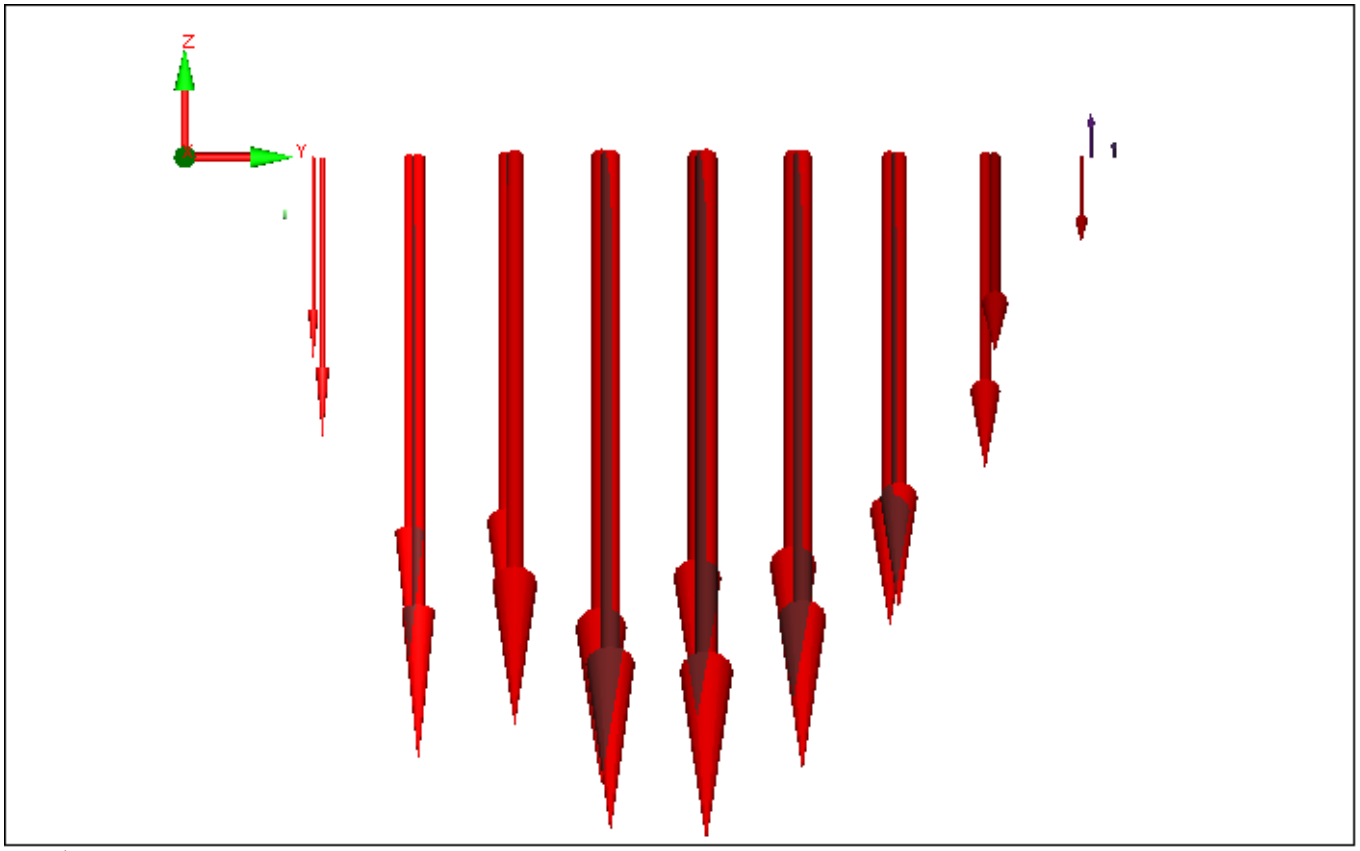
⌖	MM	LOC-TP-CC21 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS
X	0.000	0.157	0.157				
Z	0.000	0.018	0.018				
TP	RFS		0.317	0.400		0.000	0.000

⌖	MM	LOC-TP-CC22 - CRC-DAT-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	BONUS	
X	0.000	0.000	0.000					
Z	0.000	0.000	0.000					
TP	RFS		0.000	0.400		0.000	0.000	

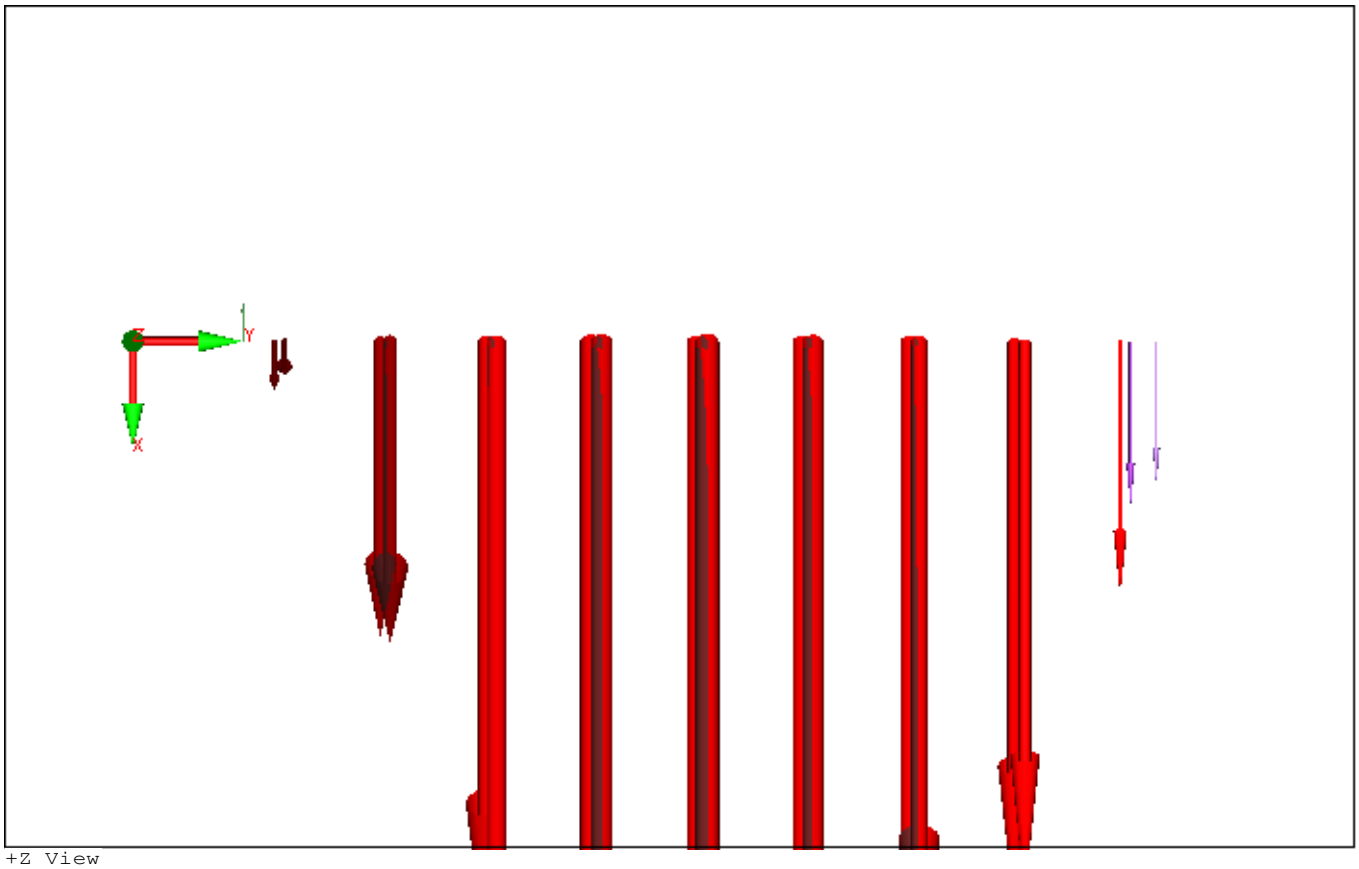
True Position plots from 3 views
x1000



-Y View
x1000



+X View
x1000



+Z View
x1000

⌗	MM	LOC-BEST FIT CONSTRUCTED LINE - LNC-BEST-FIT					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.295	0.509	0.214	0.200	0.200	0.014	
Y	658.560	625.933	-32.627	2000.000	2000.000	0.000	
Z	0.000	-0.434	-0.435	0.200	0.200	0.235	
ST	0.000	1.373	1.373	0.400	0.000	0.973	

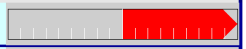
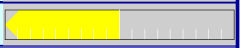
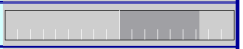
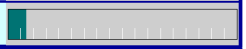
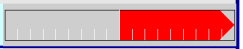
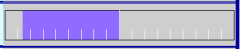
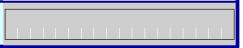
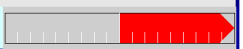
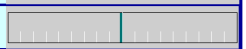
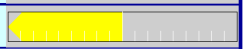
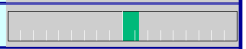
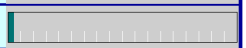
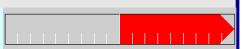
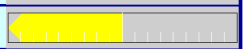
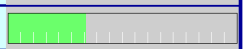
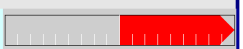
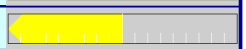
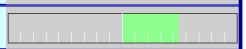
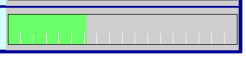
SUPPORT RING CIRCLE LOCATIONS
Positive -X- side (right)

⌗	MM	LOC-SUPPORT RING-P1 - CR_SUPPORT_RING_P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.353	-0.353	0.200	0.200	0.153	
Y	0.000	217.925	217.925	2000.000	2000.000	0.000	
Z	0.000	-0.543	-0.543	0.200	0.200	0.343	
R	56.500	56.720	0.220	0.200	0.200	0.020	
RN	0.000	0.033	0.033	0.200	0.000	0.000	

⌗	MM	LOC-SUPPORT RING-P2 - CR_SUPPORT_RING_P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.095	0.095	0.200	0.200	0.000	
Y	0.000	333.524	333.524	2000.000	2000.000	0.000	
Z	0.000	-0.622	-0.622	0.200	0.200	0.422	
R	56.500	56.665	0.165	0.200	0.200	0.000	
RN	0.000	0.087	0.087	0.200	0.000	0.000	

⌗	MM	LOC-SUPPORT RING-P3 - CR_SUPPORT_RING_P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.439	0.439	0.200	0.200	0.239	
Y	0.000	448.423	448.423	2000.000	2000.000	0.000	
Z	0.000	-0.699	-0.699	0.200	0.200	0.499	
R	56.500	56.618	0.118	0.200	0.200	0.000	
RN	0.000	0.025	0.025	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P4 - CR_SUPPORT_RING_P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.917	0.917	0.200	0.200	0.717	
Y	0.000	564.033	564.033	2000.000	2000.000	0.000	
Z	0.000	-0.564	-0.564	0.200	0.200	0.364	
R	56.500	56.338	-0.162	0.200	0.200	0.000	
RN	0.000	0.055	0.055	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P5 - CR_SUPPORT_RING_P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.879	0.879	0.200	0.200	0.679	
Y	0.000	679.332	679.332	2000.000	2000.000	0.000	
Z	0.000	-0.628	-0.628	0.200	0.200	0.428	
R	56.500	56.507	0.007	0.200	0.200	0.000	
RN	0.000	0.082	0.082	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.939	0.939	0.200	0.200	0.739	
Y	0.000	794.726	794.726	2000.000	2000.000	0.000	
Z	0.000	-0.779	-0.779	0.200	0.200	0.579	
R	56.500	56.337	-0.163	0.200	0.200	0.000	
RN	0.000	0.071	0.071	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.685	0.685	0.200	0.200	0.485	
Y	0.000	910.228	910.228	2000.000	2000.000	0.000	
Z	0.000	-0.465	-0.466	0.200	0.200	0.266	
R	56.500	56.483	-0.017	0.200	0.200	0.000	
RN	0.000	0.050	0.050	0.200	0.000	0.000	
⌗	MM	LOC-SUPPORT RING-P8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.236	0.236	0.200	0.200	0.036	
Y	0.000	1026.029	1026.029	2000.000	2000.000	0.000	
Z	0.000	-0.250	-0.250	0.200	0.200	0.050	
R	56.500	56.627	0.127	0.200	0.200	0.000	
RN	0.000	0.034	0.034	0.200	0.000	0.000	

SUPPORT RING CIRCLE LOCATIONS
Negative -X- side (left)

⌗	MM	LOC_SUPPORT_RING_N1 - CR_SUPPORT_RING_N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.507	0.507	0.200	0.200	0.307	
Y	255.357	217.944	-37.413	2000.000	2000.000	0.000	
Z	0.000	-0.529	-0.529	0.200	0.200	0.329	
R	56.500	56.641	0.141	0.200	0.200	0.000	
RN	0.000	0.016	0.016	0.200	0.000	0.000	
⌗	MM	LOC_SUPPORT_RING_N2 - CR_SUPPORT_RING_N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.460	0.460	0.200	0.200	0.260	
Y	370.957	333.543	-37.414	2000.000	2000.000	0.000	
Z	0.000	-0.689	-0.689	0.200	0.200	0.489	
R	56.500	56.331	-0.169	0.200	0.200	0.000	
RN	0.000	0.001	0.001	0.200	0.000	0.000	
⌗	MM	LOC_SUPPORT_RING_N3 - CR_SUPPORT_RING_N34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.920	0.920	0.200	0.200	0.720	
Y	485.857	448.445	-37.412	2000.000	2000.000	0.000	
Z	0.000	-0.716	-0.716	0.200	0.200	0.516	
R	56.500	56.530	0.030	0.200	0.200	0.000	
RN	0.000	0.006	0.006	0.200	0.000	0.000	
⌗	MM	LOC_SUPPORT_RING_N4 - CR_SUPPORT_RING_N45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.983	0.983	0.200	0.200	0.783	
Y	601.457	564.046	-37.411	2000.000	2000.000	0.000	
Z	0.000	-0.898	-0.898	0.200	0.200	0.698	
R	56.500	56.398	-0.102	0.200	0.200	0.000	
RN	0.000	0.069	0.069	0.200	0.000	0.000	
⌗	MM	LOC_SUPPORT_RING_N5 - CR_SUPPORT_RING_N56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	1.279	1.279	0.200	0.200	1.079	
Y	716.757	679.344	-37.413	2000.000	2000.000	0.000	
Z	0.000	-0.611	-0.611	0.200	0.200	0.411	
R	56.500	56.600	0.100	0.200	0.200	0.000	
RN	0.000	0.069	0.069	0.200	0.000	0.000	

⌗	MM	LOC_SUPPORT_RING_N6 - CR_SUPPORT_RING_N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.563	0.563	0.200	0.200	0.363	
Y	832.157	794.744	-37.413	2000.000	2000.000	0.000	
Z	0.000	-0.675	-0.675	0.200	0.200	0.475	
R	56.500	56.153	-0.347	0.200	0.200	0.147	
RN	0.000	0.021	0.021	0.200	0.000	0.000	

⌗	MM	LOC_SUPPORT_RING_N7 - CR_SUPPORT_RING_N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.977	0.977	0.200	0.200	0.777	
Y	947.657	910.241	-37.416	2000.000	2000.000	0.000	
Z	0.000	-0.050	-0.051	0.200	0.200	0.000	
R	56.500	56.742	0.242	0.200	0.200	0.042	
RN	0.000	0.121	0.121	0.200	0.000	0.000	

⌗	MM	LOC_SUPPORT_RING_N8 - CR_SUPPORT_RING_N89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.943	0.943	0.200	0.200	0.743	
Y	1063.457	1026.041	-37.416	2000.000	2000.000	0.000	
Z	0.000	-0.068	-0.068	0.200	0.200	0.000	
R	56.500	56.744	0.244	0.200	0.200	0.044	
RN	0.000	0.081	0.081	0.200	0.000	0.000	

CONCENTRICITY SUPPORT RING CIRCLES
Negative X & Positive X (left & right) (X)

◎	MM	CON_P12 - CR_SUPPORT_RING_P12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.070	1.070	0.400	0.000	0.670	

◎	MM	CON_N12 - CR_SUPPORT_RING_N12 TO LINC_SUPPORT_RING_B12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.669	0.669	0.400	0.000	0.269	

◎	MM	CON_P23 - CR_SUPPORT_RING_P23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.811	0.811	0.400	0.000	0.411	

◎	MM	CON_N23 - CR_SUPPORT_RING_N23 TO LINC_SUPPORT_RING_B23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.090	0.090	0.400	0.000	0.000	

◎	MM	CON_P34 - CR_SUPPORT_RING_P34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.957	0.957	0.400	0.000	0.557	

◎	MM	CON_N34 - CR_SUPPORT_RING_N34 TO LINC_SUPPORT_RING_B34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.015	0.015	0.400	0.000	0.000	

◎	MM	CON_P45 - CR_SUPPORT_RING_P45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.385	0.385	0.400	0.000	0.000	
◎	MM	CON_N45 - CR_SUPPORT_RING_N45 TO LINC_SUPPORT_RING_B45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.337	0.337	0.400	0.000	0.000	
◎	MM	CON_P56 - CR_SUPPORT_RING_P56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.305	0.305	0.400	0.000	0.000	
◎	MM	CON_N56 - CR_SUPPORT_RING_N56 TO LINC_SUPPORT_RING_B56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.688	0.688	0.400	0.000	0.288	
◎	MM	CON_P67 - CR_SUPPORT_RING_P67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.286	0.286	0.400	0.000	0.000	
◎	MM	CON_N67 - CR_SUPPORT_RING_N67 TO LINC_SUPPORT_RING_B67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.571	0.571	0.400	0.000	0.171	
◎	MM	CON_P78 - CR_SUPPORT_RING_P78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.021	0.021	0.400	0.000	0.000	
◎	MM	CON_N78 - CR_SUPPORT_RING_N78 TO LINC_SUPPORT_RING_B78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.035	1.035	0.400	0.000	0.635	
◎	MM	CON_P89 - CR_SUPPORT_RING_P89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.482	0.482	0.400	0.000	0.082	
◎	MM	CON_N89 - CR_SUPPORT_RING_N89 TO LINC_SUPPORT_RING_B89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.979	0.979	0.400	0.000	0.579	

⟷	MM	A - PL-NEAR-END-FLANGE TO PL-FAR-END (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1247.400	1251.717	4.317	0.200	0.200	4.117	
⟷	MM	B - PLC-DAT-1 TO PLC-DAT-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1061.060	1067.825	6.765	0.200	0.200	6.565	
⟷	MM	C - PLC-DAT-1 TO CR_NW8_ANTENNA_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.240	31.398	-0.842	0.200	0.200	-0.642	
⟷	MM	D - PLC-DAT-2 TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	32.900	32.275	-0.625	0.200	0.200	-0.425	
⟷	MM	E - LNC-LEVEL TO PL NW8 ANTENNA FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	53.800	53.477	-0.323	0.200	0.200	-0.123	
⟷	MM	F - LNC-LEVEL TO PL NW 40 FLANGE (XAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	88.000	88.009	0.009	0.200	0.200	0.000	
⌗	MM	G - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
T	0.000	0.000	0.000	0.000	0.000	0.000	
⟷	MM	H - PL-FORMTEIL2 TO PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	28.420	28.346	-0.074	0.100	0.100	0.000	
⟷	MM	I1 - PL-NEAR-END-FLANGE TO CY-HOM-1 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	59.639	-0.961	0.200	0.200	-0.761	
⟷	MM	I2 - PL-NEAR-END-FLANGE TO CY-HOM-2 (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1191.047	4.247	0.200	0.200	4.047	
⟷	MM	I3 - PL-NEAR-END-FLANGE TO CR_NW_40_FLANGE (YAXIS)					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1186.800	1191.755	4.955	0.200	0.200	4.755	
∠	DEG	K - CY-HOM-1 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	32.296	2.296	0.500	0.500	1.796	
∠	DEG	L - CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.357	0.357	0.500	0.500	0.000	

⊿	DEG	M - LINC_AXIS_NW40 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.000	0.000	0.500	0.500	0.000	
⌗	MM	O1 - CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.954	-0.046	0.300	0.300	0.000	
⌗	MM	O2 - CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	140.000	139.960	-0.040	0.300	0.300	0.000	
⌗	MM	P1 - CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	210.928	0.628	0.050	0.050	0.578	
⌗	MM	P2 - CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.197	0.897	0.050	0.050	0.847	
⌗	MM	P3 - CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.209	0.909	0.050	0.050	0.859	
⌗	MM	P4 - CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.207	0.907	0.050	0.050	0.857	
⌗	MM	P5 - CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.249	0.949	0.050	0.050	0.899	
⌗	MM	P6 - CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.287	0.986	0.050	0.050	0.936	
⌗	MM	P7 - CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.257	0.956	0.050	0.050	0.906	
⌗	MM	P8 - CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.213	0.912	0.050	0.050	0.862	
⌗	MM	P9 - CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.240	0.940	0.050	0.050	0.890	
⌗	MM	P10 - CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	210.300	211.231	0.931	0.050	0.050	0.881	

⌗	MM	P11 - CRC-CAV-6-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.226	0.926	0.050	0.050	0.876

⌗	MM	P12 - CRC-CAV-6-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.230	0.929	0.050	0.050	0.879

⌗	MM	P13 - CRC-CAV-7-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.223	0.923	0.050	0.050	0.873

⌗	MM	P14 - CRC-CAV-7-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.169	0.869	0.050	0.050	0.819

⌗	MM	P15 - CRC-CAV-8-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.183	0.882	0.050	0.050	0.832

⌗	MM	P16 - CRC-CAV-8-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.203	0.903	0.050	0.050	0.853

⌗	MM	P17 - CRC-CAV-9-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.333	1.033	0.050	0.050	0.983

⌗	MM	P18 - CRC-CAV-9-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.649	0.349	0.050	0.050	0.299

⌗	MM	Q1 - CR_SUPPORT_RING_P12

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.720	0.220	0.080	0.080	0.140

⌗	MM	Q2 - CR_SUPPORT_RING_P23

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.665	0.165	0.080	0.080	0.085

⌗	MM	Q3 - CR_SUPPORT_RING_P34

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.618	0.118	0.080	0.080	0.038

⌗	MM	Q4 - CR_SUPPORT_RING_P45

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.338	-0.162	0.080	0.080	0.082

⌗	MM	Q5 - CR_SUPPORT_RING_P56

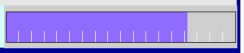
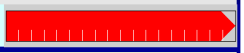
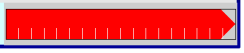
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.507	0.007	0.080	0.080	0.000

⌗	MM	Q6 - CR_SUPPORT_RING_P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.337	-0.163	0.080	0.080	0.083	
⌗	MM	Q7 - CR_SUPPORT_RING_P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.483	-0.017	0.080	0.080	0.000	
⌗	MM	Q8 - CR_SUPPORT_RING_P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	56.500	56.627	0.127	0.080	0.080	0.047	
⌗	MM	Q9 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q10 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q11 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q12 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q13 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q14 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q15 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	Q16 - NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
R	0.000	0.000	0.000	0.080	0.080	0.000	
⌗	MM	R1 - CRC-VAC-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	191.200	210.319	19.119	0.200	0.200	18.919	
⌗	MM	R2 - CRC-VAC-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
D	200.000	234.580	34.580	0.200	0.200	34.380	

◎	MM	U1 - CR-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.614	0.614	0.400	0.000	0.214	
◎	MM	U2 - CR-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.707	0.707	0.400	0.000	0.307	
◎	MM	U3 - CRC-CAV-1-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.508	0.508	0.400	0.000	0.108	
◎	MM	U4 - CRC-CAV-1-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.683	0.683	0.400	0.000	0.283	
◎	MM	U5 - CRC-CAV-2-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.378	1.378	0.400	0.000	0.978	
◎	MM	U6 - CRC-CAV-2-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.612	1.612	0.400	0.000	1.212	
◎	MM	U7 - CRC-CAV-3-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.797	1.797	0.400	0.000	1.397	
◎	MM	U8 - CRC-CAV-3-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.204	2.204	0.400	0.000	1.804	
◎	MM	U9 - CRC-CAV-4-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.483	2.483	0.400	0.000	2.083	
◎	MM	U10 - CRC-CAV-4-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.370	2.370	0.400	0.000	1.970	
◎	MM	U11 - CRC-CAV-5-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.316	2.316	0.400	0.000	1.916	
◎	MM	U12 - CRC-CAV-5-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.596	2.596	0.400	0.000	2.196	
◎	MM	U13 - CRC-CAV-6-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.279	2.279	0.400	0.000	1.879	

◎	MM	U14 - CRC-CAV-6-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.339	2.339	0.400	0.000	1.939	
◎	MM	U15 - CRC-CAV-7-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.938	1.938	0.400	0.000	1.538	
◎	MM	U16 - CRC-CAV-7-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.825	1.825	0.400	0.000	1.425	
◎	MM	U17 - CRC-CAV-8-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.457	1.457	0.400	0.000	1.057	
◎	MM	U18 - CRC-CAV-8-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.306	1.306	0.400	0.000	0.906	
◎	MM	U19 - CRC-CAV-9-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.595	0.595	0.400	0.000	0.195	
◎	MM	U20 - CRC-CAV-9-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.376	0.376	0.400	0.000	0.000	
◎	MM	U21 - CR_SUPPORT_RING_P12 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.295	1.295	0.400	0.000	0.895	
◎	MM	U22 - CR_SUPPORT_RING_P23 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.258	1.258	0.400	0.000	0.858	
◎	MM	U23 - CR_SUPPORT_RING_P34 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.650	1.650	0.400	0.000	1.250	
◎	MM	U24 - CR_SUPPORT_RING_P45 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.153	2.153	0.400	0.000	1.753	
◎	MM	U25 - CR_SUPPORT_RING_P56 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.161	2.161	0.400	0.000	1.761	
◎	MM	U26 - CR_SUPPORT_RING_P67 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	2.441	2.441	0.400	0.000	2.041	

◎	MM	U27 - CR_SUPPORT_RING_P78 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.656	1.656	0.400	0.000	1.256	
◎	MM	U28 - CR_SUPPORT_RING_P89 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.687	0.687	0.400	0.000	0.287	
◎	MM	U29 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U30 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U31 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U32 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U33 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U34 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U35 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U36 - NITO TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U37 - CRC-DAT-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U38 - CRC-DAT-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.000	0.000	0.400	0.000	0.000	
◎	MM	U39 - CRC-VAC-1 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.192	0.192	0.400	0.000	0.000	

◎	MM	U40 - CRC-VAC-2 TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.317	0.317	0.400	0.000	0.000	
⊥	MM	V1 - PL-NEAR-END-FLANGE TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.391	0.391	0.200	0	0.191	
⊥	MM	V2 - PL-FAR-END TO LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0	0.519	0.519	0.200	0	0.319